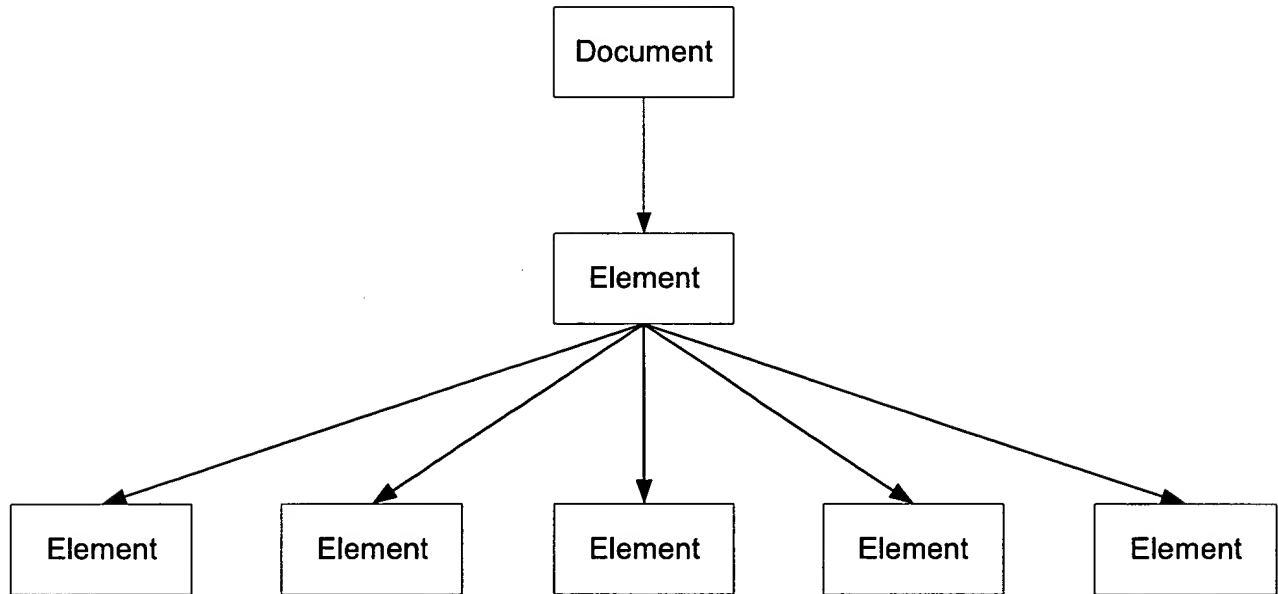


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FIG. 1

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FIG. 2

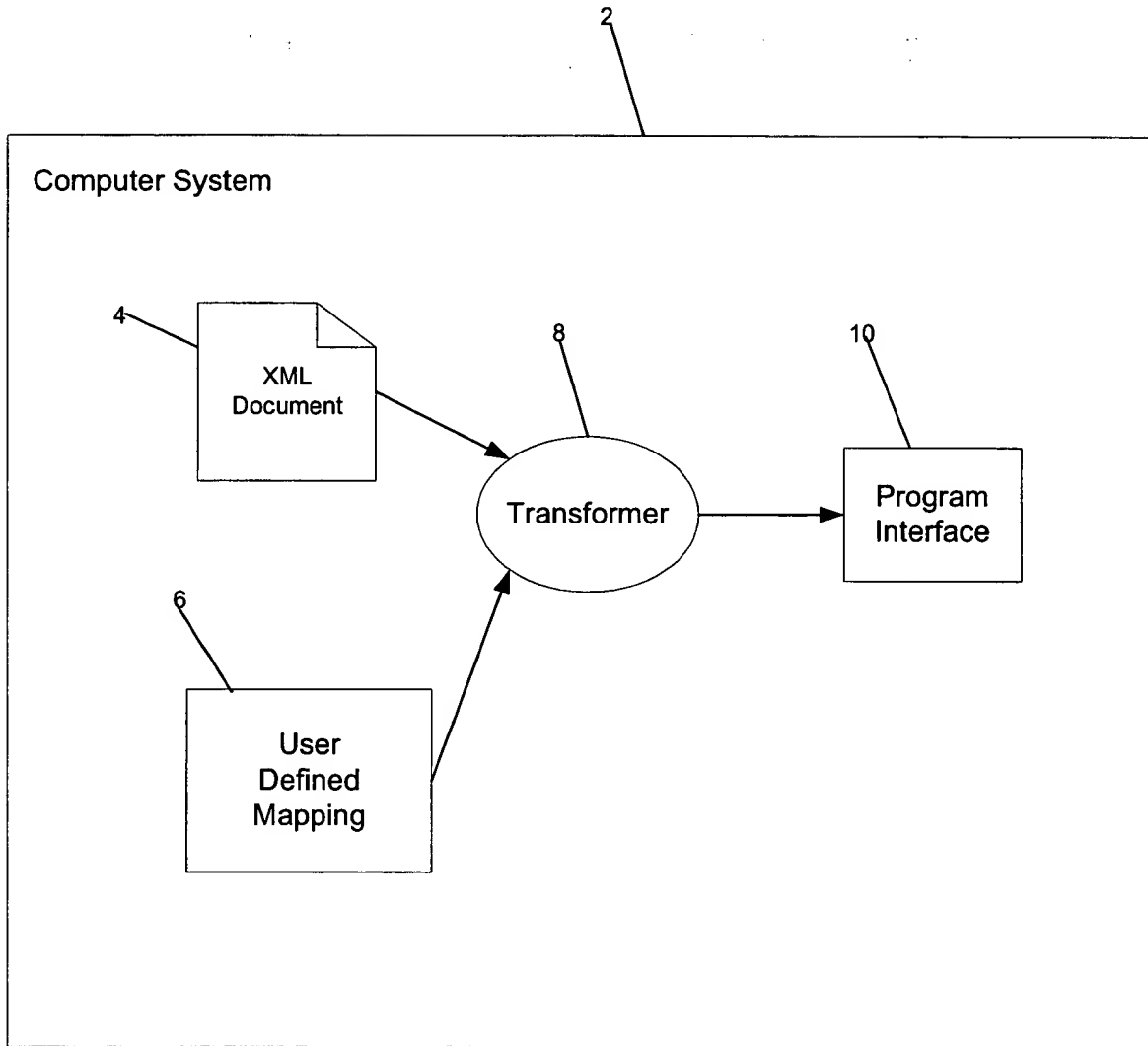
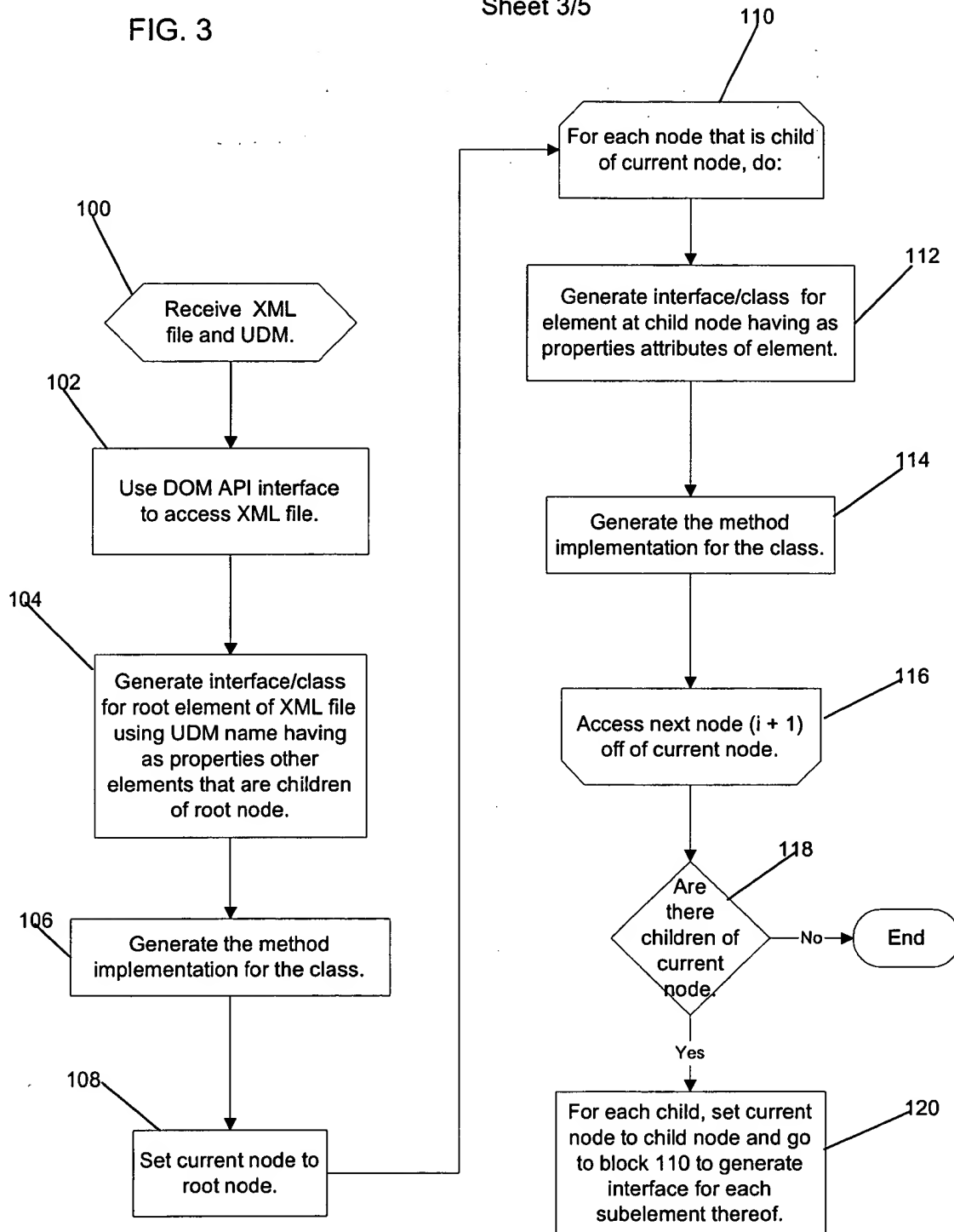


FIG. 3



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FIG. 4

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```

<xml version = "1.0".
<Catalog name = "pc-catalog">
  <Item type = "Desktop PC" id="92" sub-type="6899" serial="689923F007">
    <Description>
      For the office, the IBM OfficePro offers today's most sophisticated,
      cost-effective, industry standard technologies.
    </Description>
    <Specification>
      <Processor type="Pentium Pro" speed="200" unit="MHz"/>
      <Memory type="DIMM" size="5" unit="GB"/>
      <Diskdrive type="SCSI" size="5" unit="GB"/>
    </Specification>
    <Price value="2000" unit="US"/>
  </Item>

  <Item>
    ...
  </Item>

  <Item>
    ...
  </Item>

  ...

</Catalog>

```

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FIG. 5

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```

<?xml version="1.0"?>
<DOCTYPE udm SYSTEM "udm.dtd">
<udm to="catalog.xml">
  <mapping to="catalog instantiationClassName="MyCatalog"/>
  <mapping to="Item" attributeDataTypes="serial int"/>
  <mapping to="Description"/>
  <mapping to="Specification"/>
  <mapping to="Processor" attributeDataTypes="speed int"/>
  <mapping to="Memory" attributeDataTypes="size int"/>
  <mapping to="Disdrive" attributeDataTypes="size int"/>
  <mapping to="Price" attributeDataTypes="value int"/>
</udm>

```

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